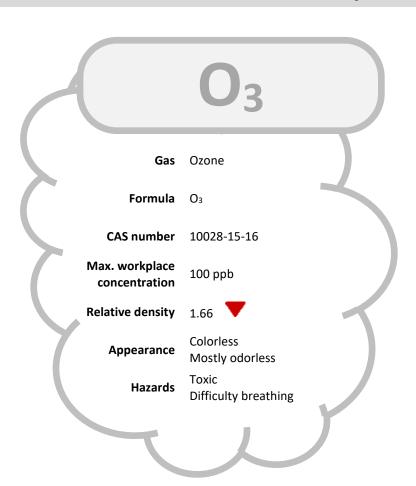
Gas Sensor ME 1250 Ozone O₃



Data Sheet

Version 10/2022, Technical changes reserved





- Automatic zero point calibration
- Active noise reduction on the output signal
- Linear measurement signal depending on the gas concentration
- High response sensitivity with a short response time
- Selective and reliable measurement with stable measuring signal and zero point
- Temperature compensated measurement
- Long service life

The ME1250 Gas Sensor is a remote measuring unit for monitoring gas concentration and is used for workplace safety and/or as a leak detector.

The microprocessor-controlled electronics of the sensor, adapted to the specific properties of the measuring cell, enable fast and reliable signal processing. The measured gas concentration is transmitted to a Gas Control Panel, which can manage a large number of distributed gas sensors.

Thanks to bus communication, only one cable is required, which can be continued from sensor to sensor. The ME 1250 Gas Sensor is also available with an analogue output signal of 4...20 mA. The measured gas concentration can thereby be processed by other PLC (Programmable Logic Controllers).

The optional relay module expands the ME 1250 Gas Sensor internally with 3 relays for direct switching of signal transmitters without the use of a control panel.

Technical Specifications

Measurement method	Electrochemical		
Measuring range	01,000 ppb	other measuring ranges on request	
Alarm thresholds	Alarm 1: 300 ppb Alarm 2: 500 ppb	recommendation	
Lifespan in air	up to 2 years	according to cell manufacturer	
Break-in period	12 h	according to cell manufacturer	
Response time t ₈₀	< 60 sec		
Operating voltage	1028 VDC	nominal 24 VDC	
Ambient temperature	-40+50 °C		
Humidity	1590% rF	non-condensing	
Mounting height	30 cm above floor	heavier than air	
Casing	Default:	Optional:	
	Powder-coated aluminum	ABS plastic	
	Orange RAL 2004	Light gray RAL 7035	
	80 x 125 x 59 mm	81 x 121 x 56 mm	
	500 g	250 g	
Cable entry	M20		
EU conformity	CE mark including EMC test		

Versions

	Article code	12BUS-O3-10	1250-03-10
	Description	ME 1250 Bus	ME 1250 Analogue
	Output signal	Bus communication with Control Panel	Analogue 420 mA Load max. 800 Ω at 24V input
	Connection	4-core cable U72M 1x4x0.6 mm Shielded	3-core cable U72M 1x4x0.6 mm or CY 0.5 mm ² Shielded
	Topology	Bus, tree or star topology	Star topology
	Power	< 0.15 W	< 0.8 W

Cross sensitivity

Due to the electrochemical measurement principle, the measurement is more selective than other measurement methods. The cross-sensitivity table can be found in the online version of this data sheet.

Accessories

Article code	
1250-REL	Relay module
	for single sensor
1250-AIR-BOX	Add-on box
	for ventilation duct
1250-AIR-FLOW	Hose fitting
1250-SUP	Mounting plate
	for round columns
1250-SCHUTZ	Weather protection

Maintenance

Annual calibration and function check with calibration gas, carried out by trained staff.

Consumables

Artic	le d	coc	de

CELL-O3-C5	Measuring cell for ozone
	Lifespan: up to 2 years

- Exposure above 1,000 ppb requires recalibration
- Exposure above 50,000 ppb can destroy the measuring